

Sig Figs Practice

1. Determine the number of sig figs in the following:

a) 2004

b) 23.33

c) 2.30

d) 34000

e) 0.0033

f) 0.000007800

g) 23000.0

h) 19.3000

i) 0.000003987

j) 20000

k) 140

l) 11.000

2. Calculate the following using the proper number of sig figs:

a) 47.8×13

b) 12.00×19.3

c) $54 / 6.655$

d) $345434 / 5000$

e) $76.387 + 13.3$

f) $12.0987 + 4$

g) $87.34 - 54.8$

h) $34.344 - 9$

i) $7.7 \times 10^{23} / 6.02 \times 10^{23}$

j) $9.234 \times 10^9 / 2 \times 10^7$

k) $4.3 \times 10^6 \times 7.88 \times 10^{-9}$

l) $1.22 \times 10^{-8} \times 3.766 \times 10^4$

3. Determine the percent error for the following:

a) measured mass: 45.5 g actual mass: 46.3 g

b) product obtained: 23.06 g theoretical product obtained: 27.22 g

c) friends weight guess: 155 pounds actual weight: 162 pounds

d) score on test: 55 max score possible: 78